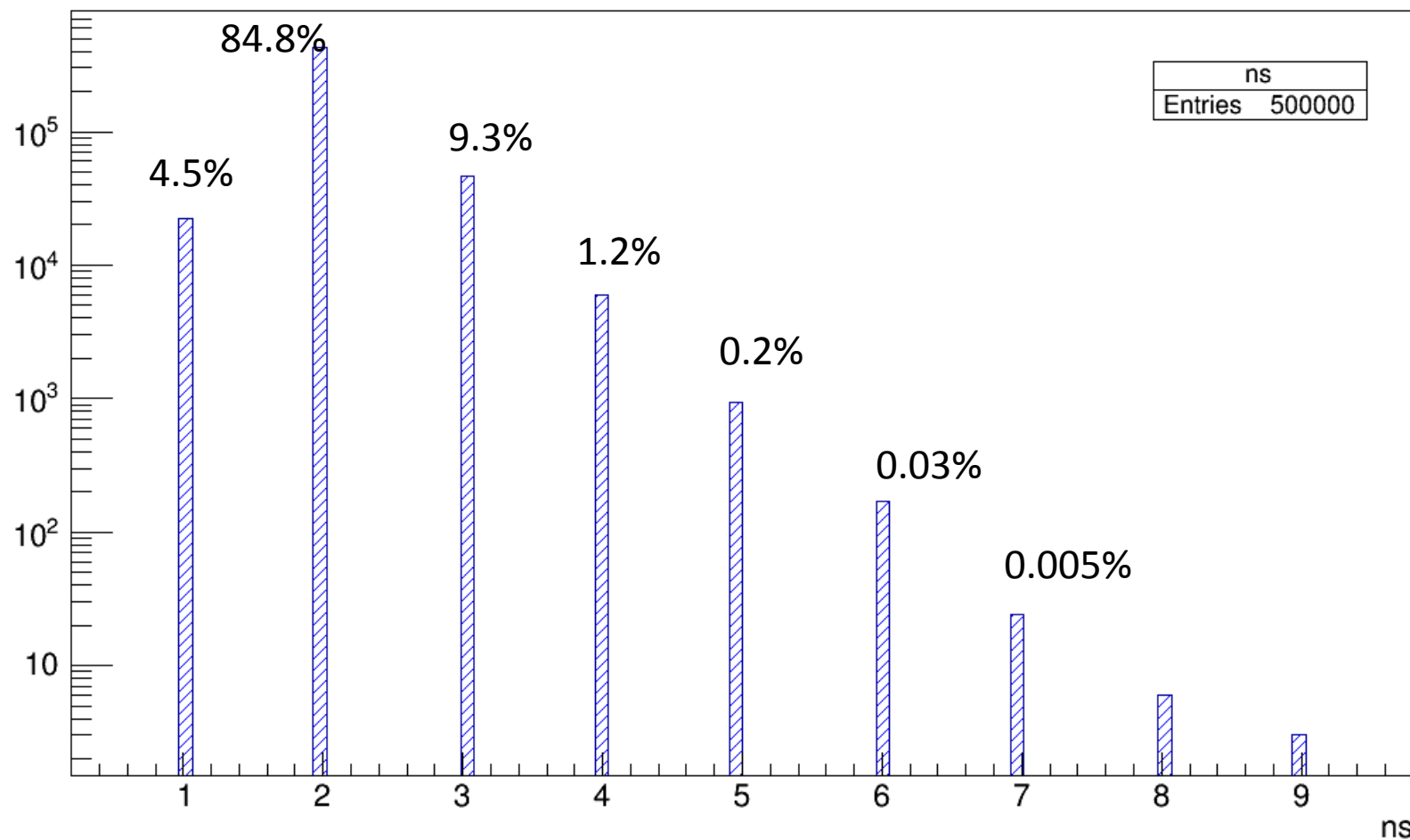
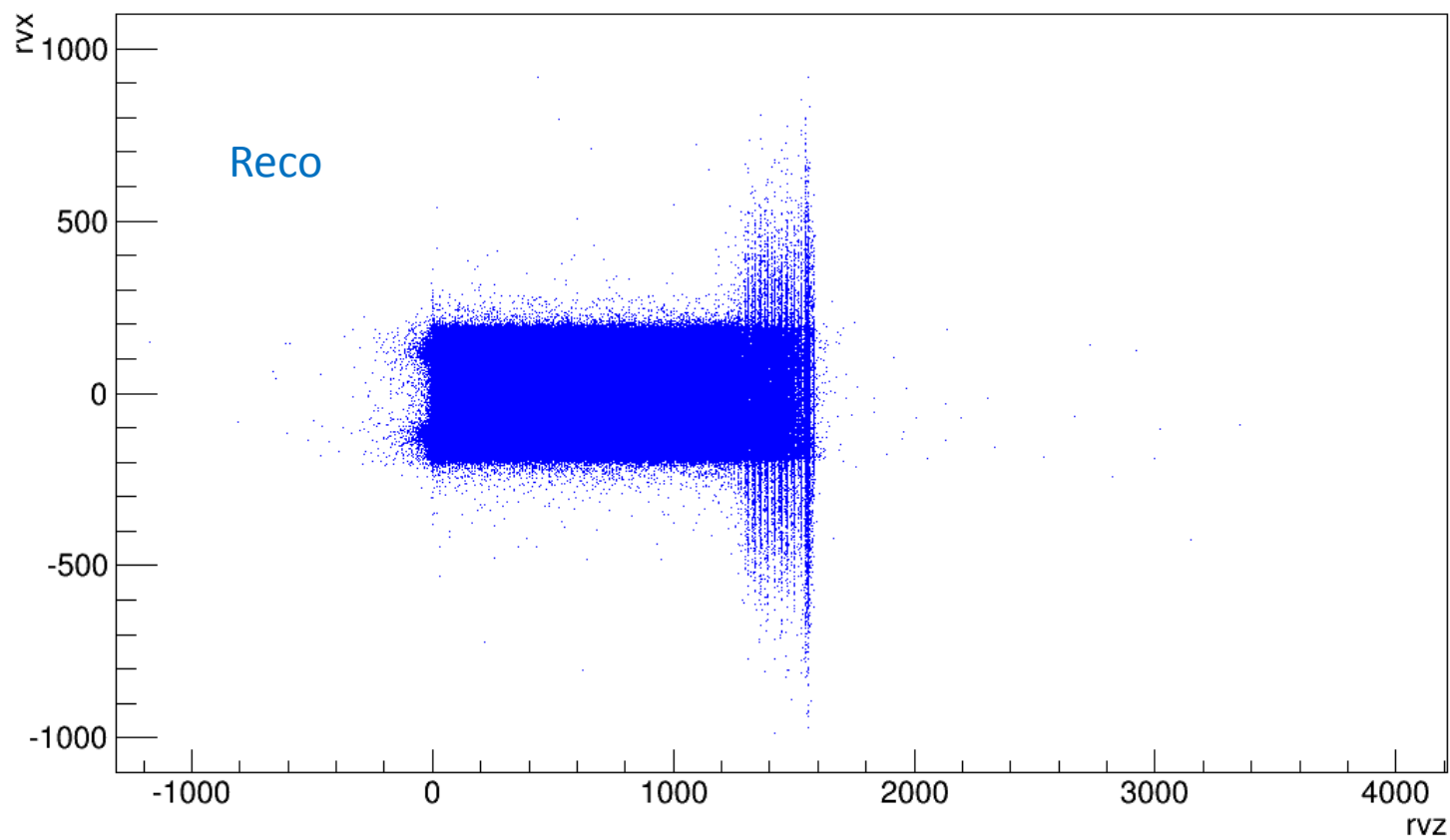
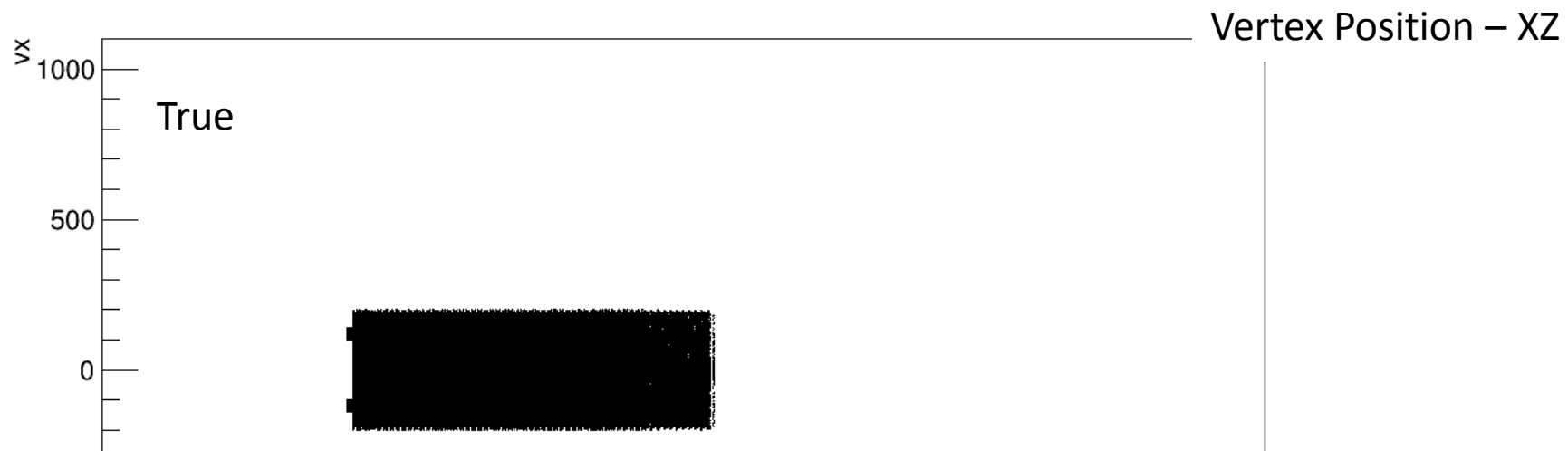


- 500k nue events @ ND
 - 90.5% nue, 9.5% antinue
 - Vertex found in 95% of cases
 - Number of slices

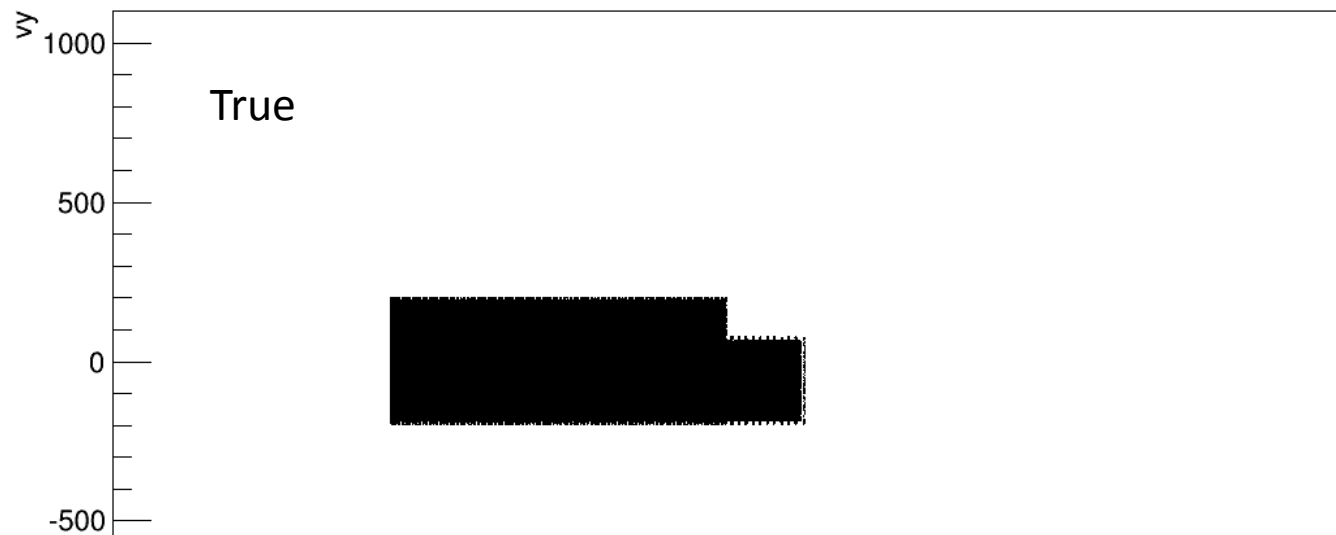
Number of Slices



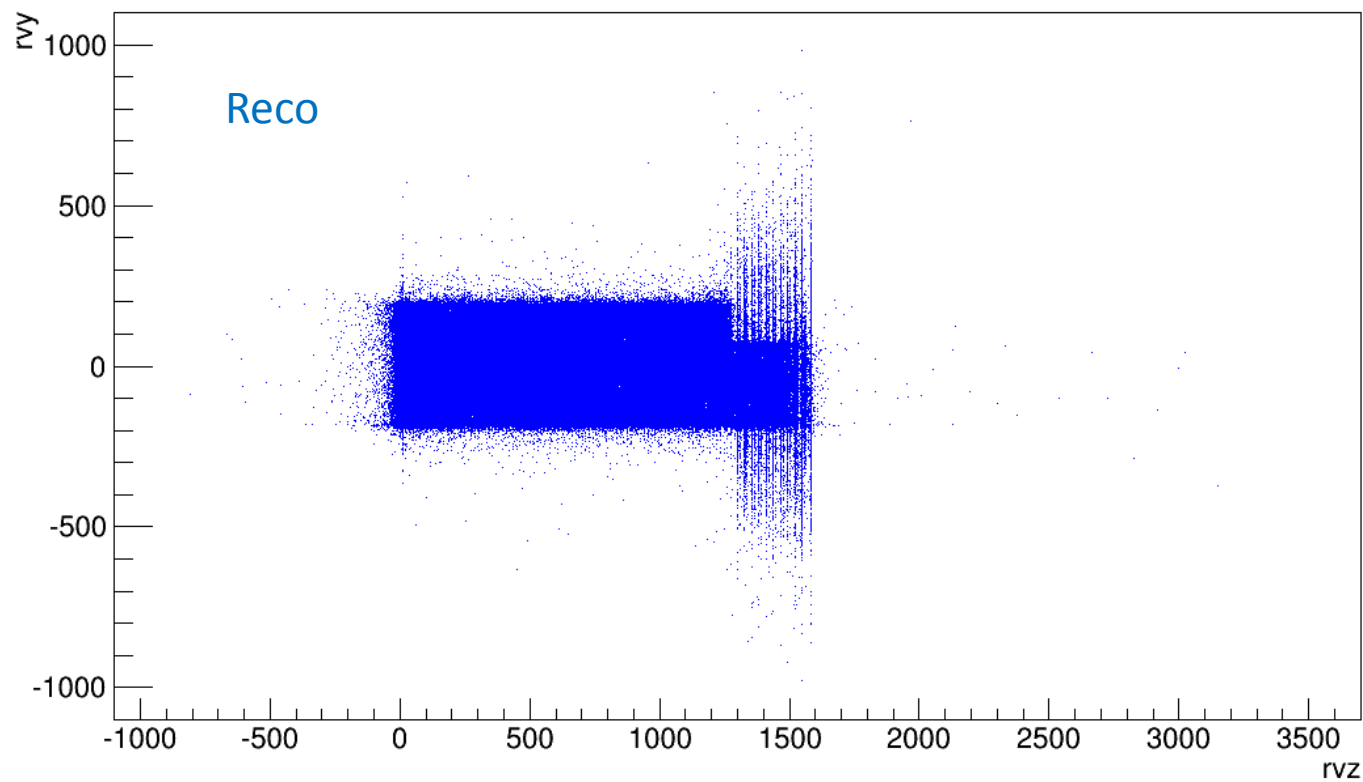


Vertex Position – YZ

True

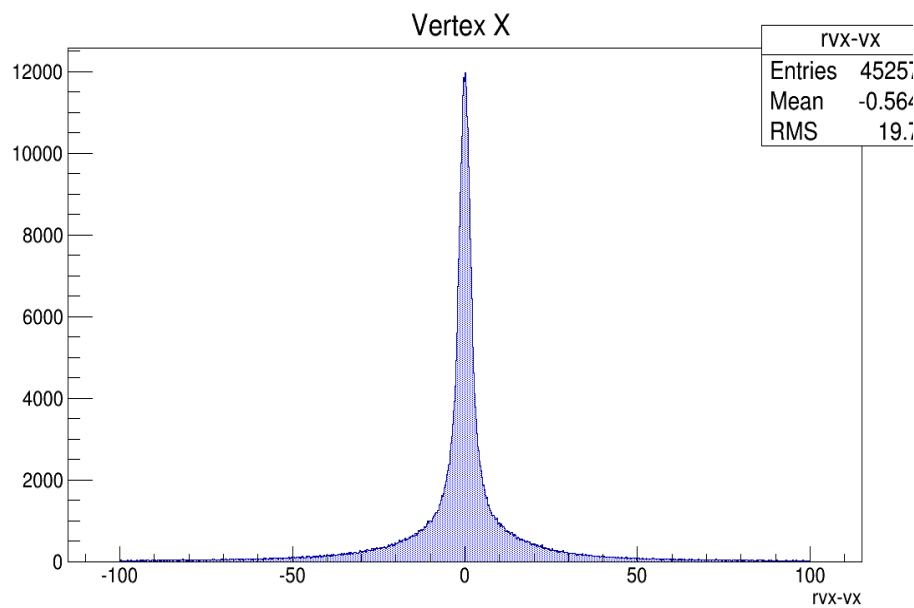


Reco

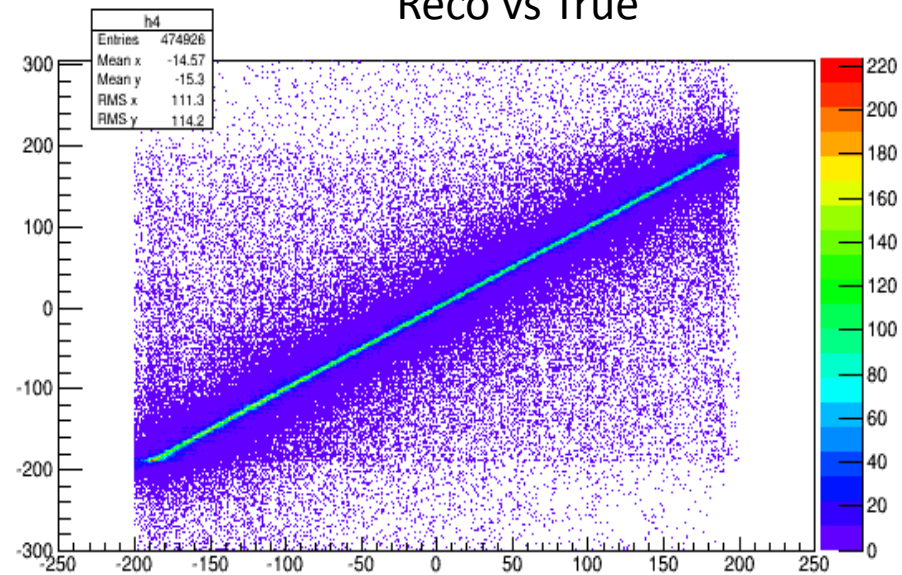


Vertex X position

Reco-True

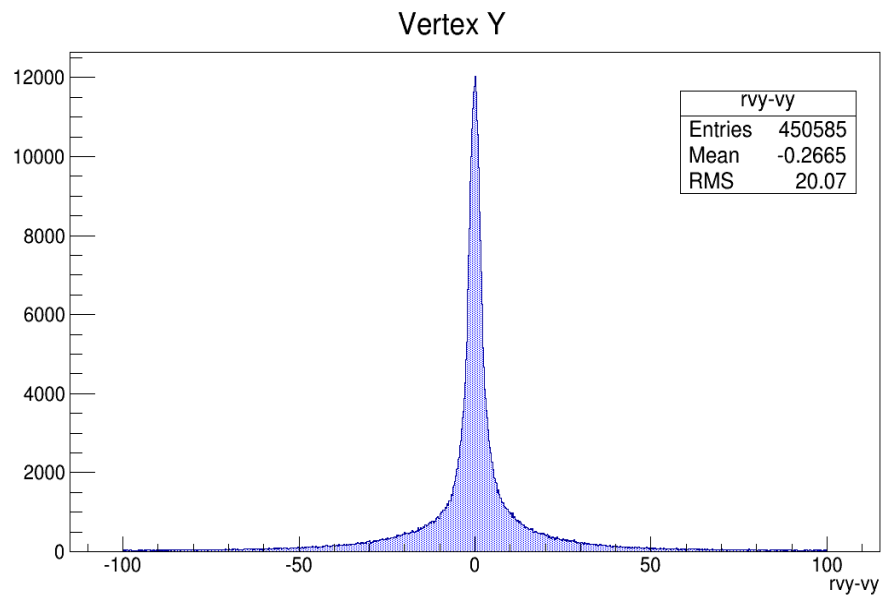


Reco vs True

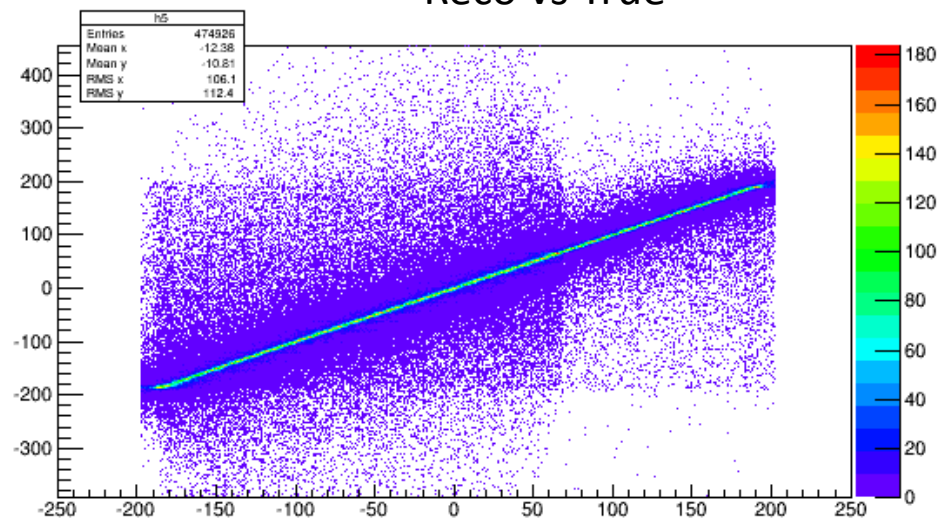


Reco-True

Vertex Y position



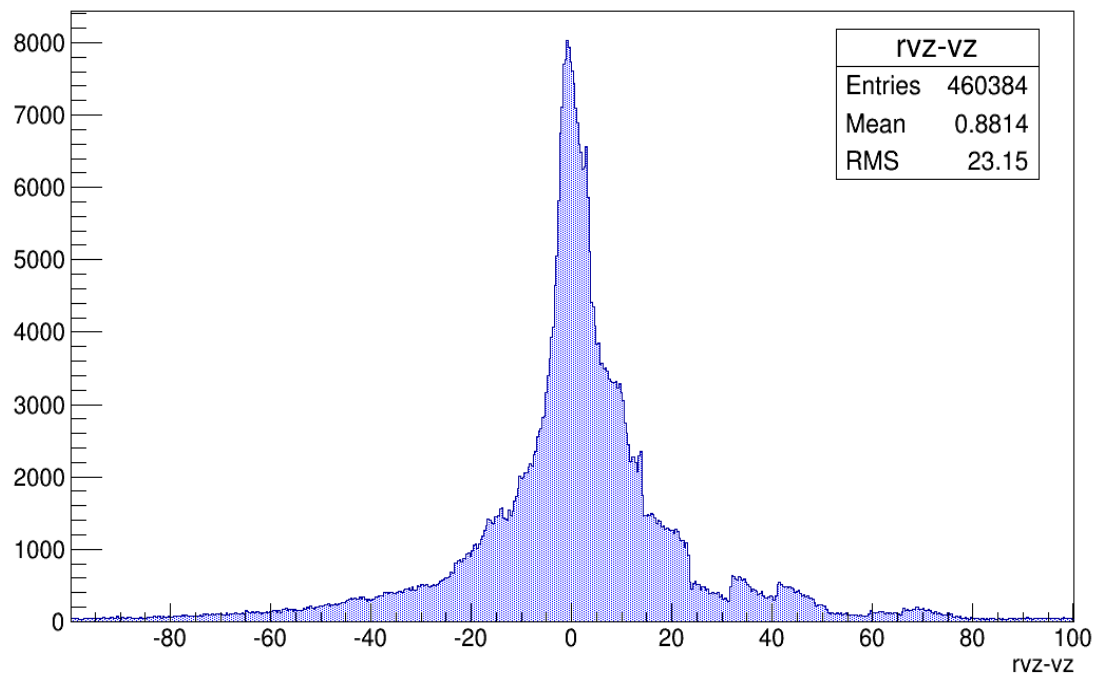
Reco vs True



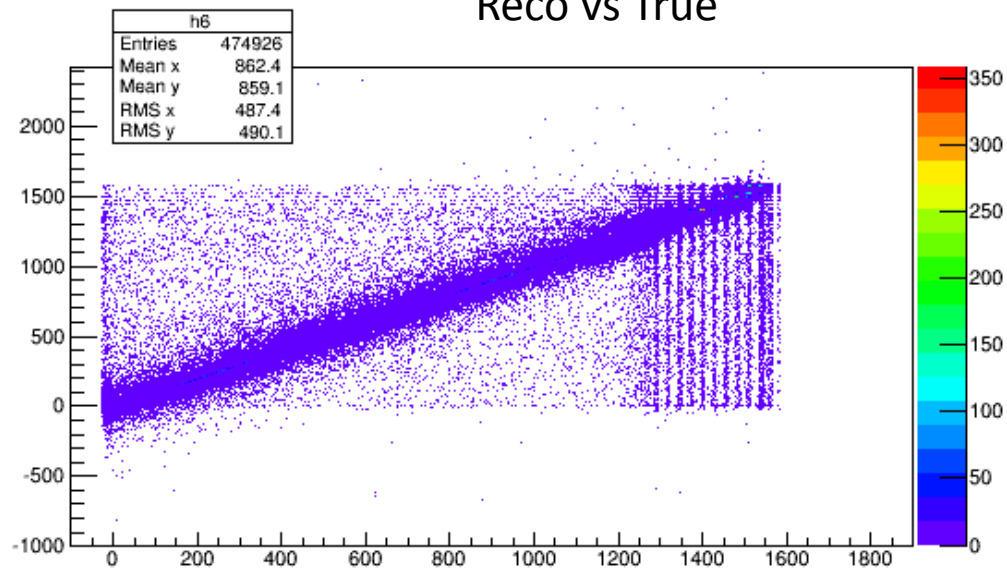
Vertex Z position

Reco-True

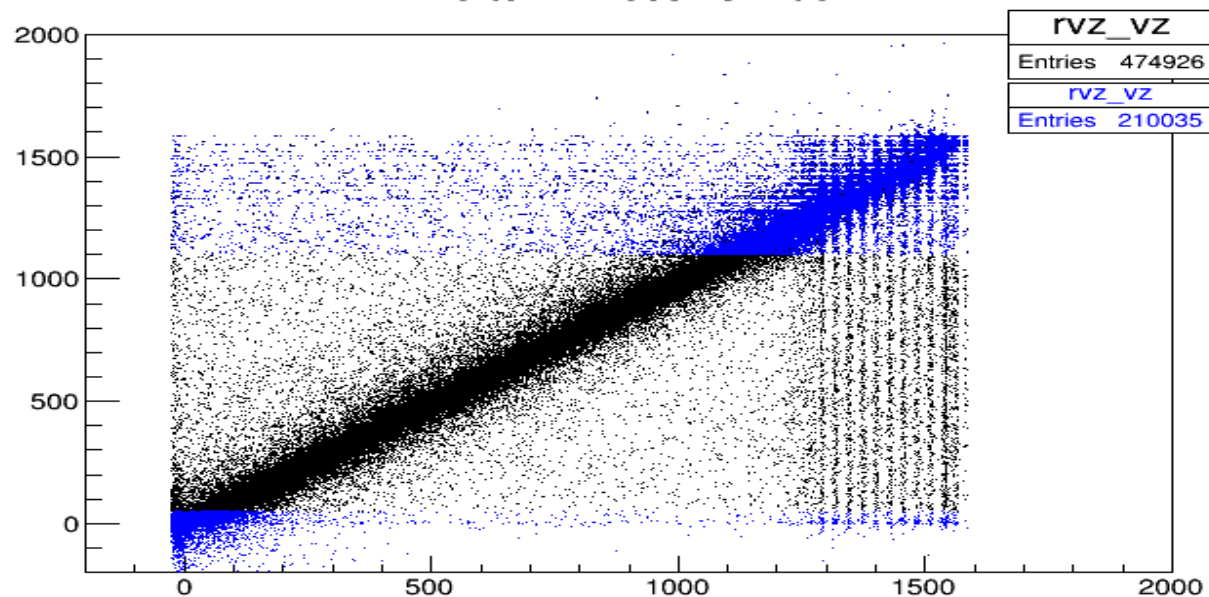
Vertex Z



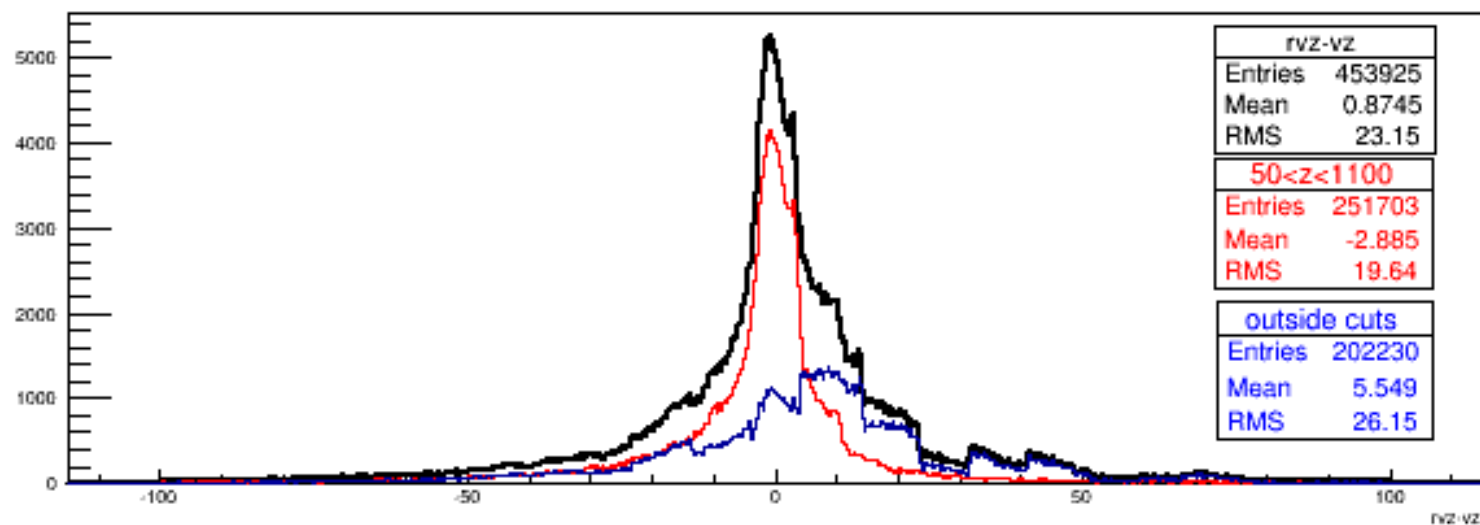
Reco vs True



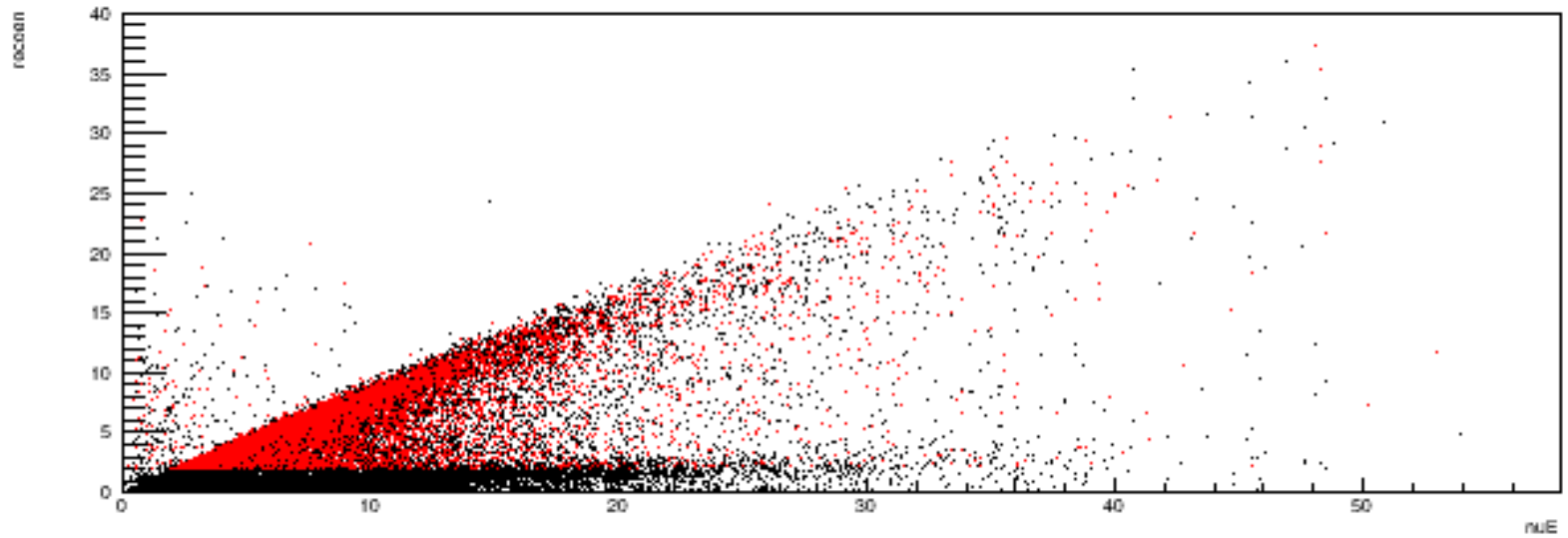
Vertex Z Reco vs True



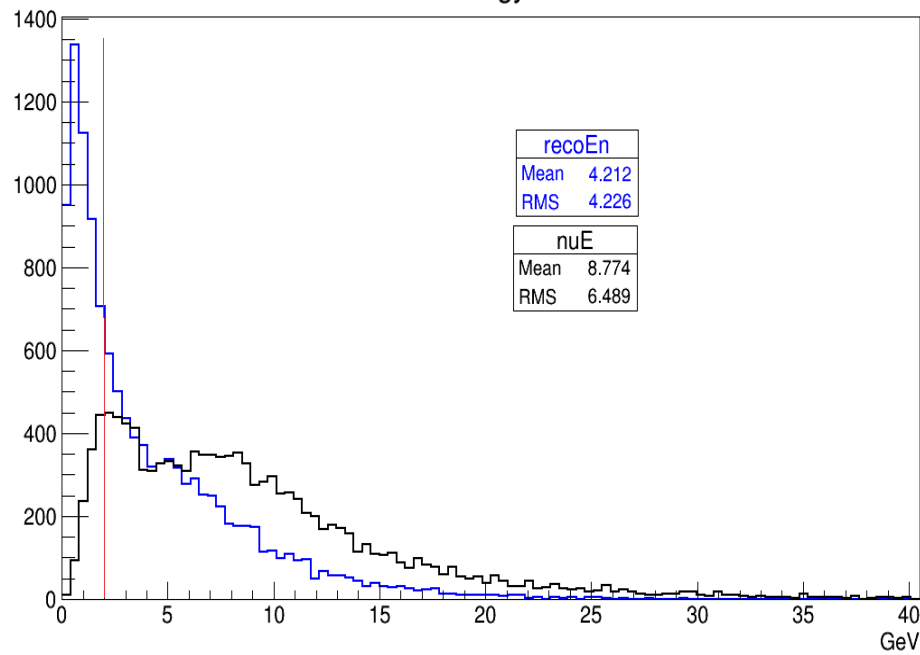
Vertex Z Reco - True



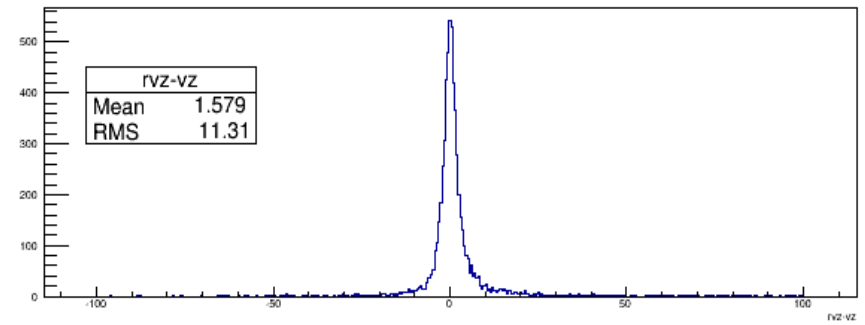
Energy



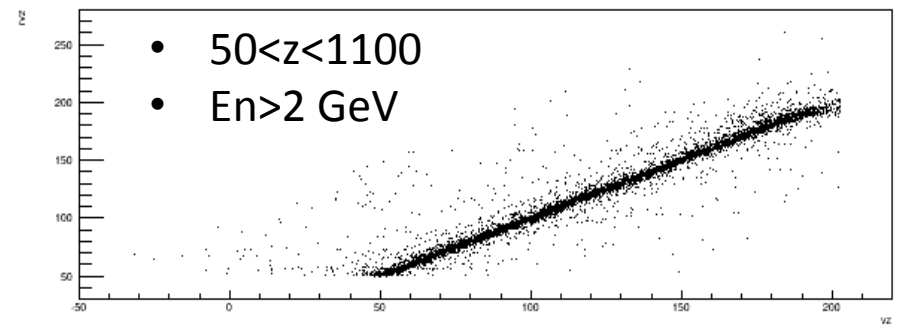
Energy



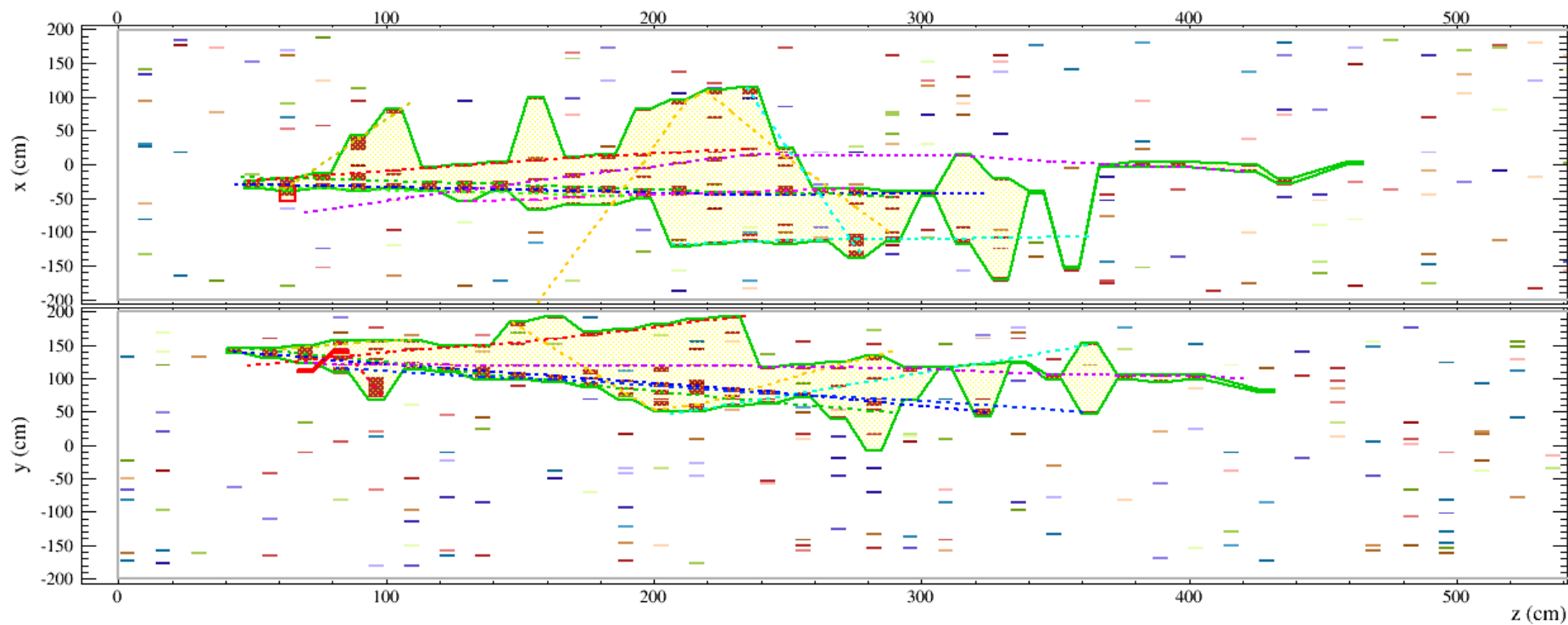
Vertex Z Reco - True



Vertex Z Reco vs True



ND – some “3 slices” events



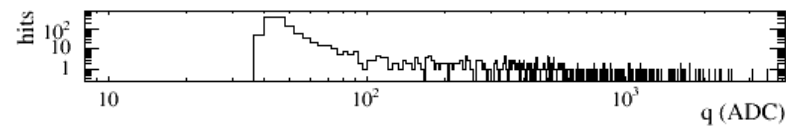
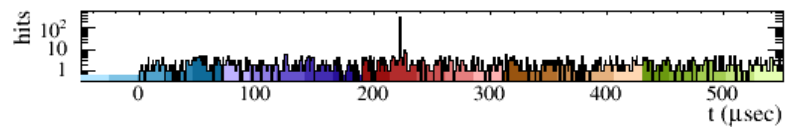
NOvA - FNAL E929

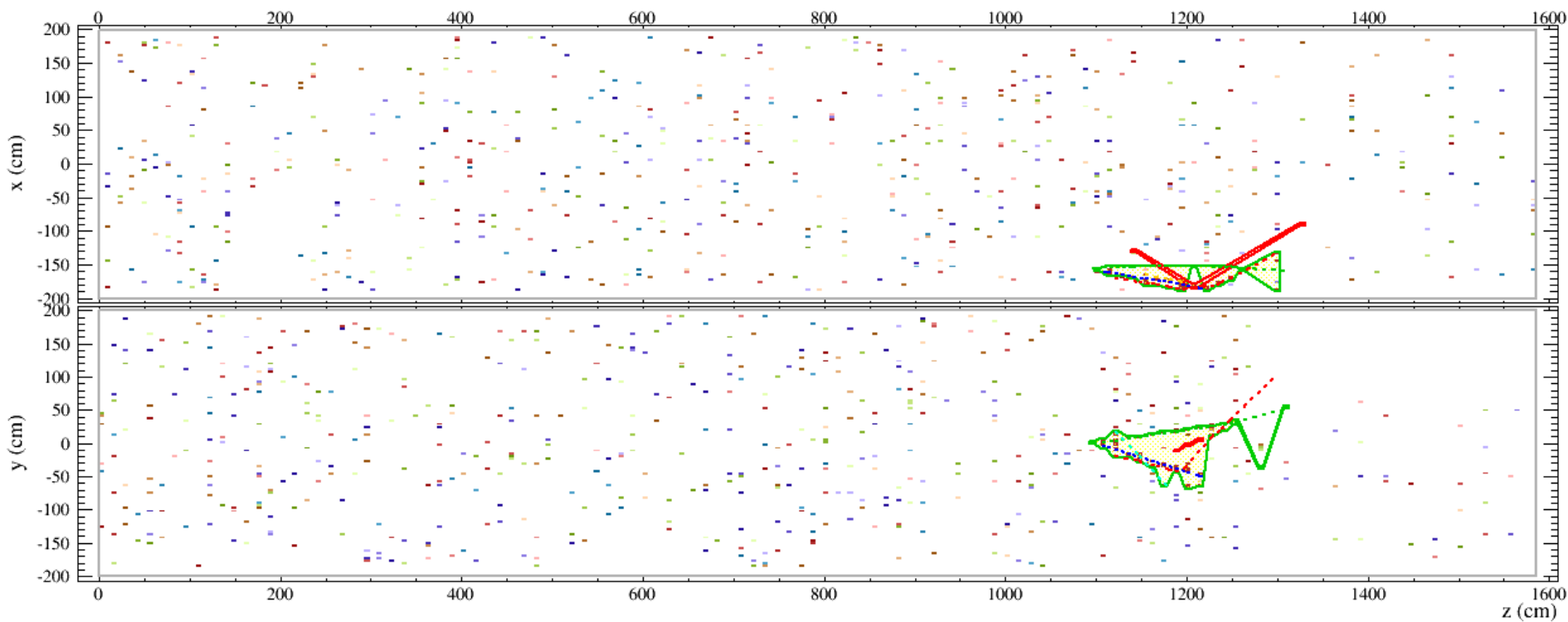
Run: 1 / 1

Event: 748 / NuMI

UTC Wed Dec 31, 1969

23:59:59.445032704





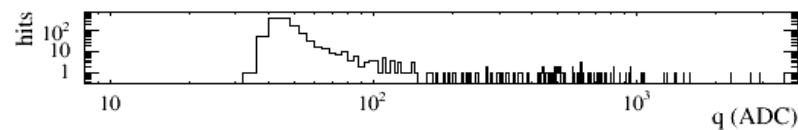
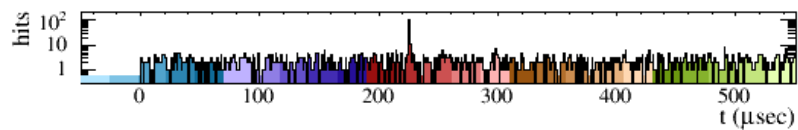
NOvA - FNAL E929

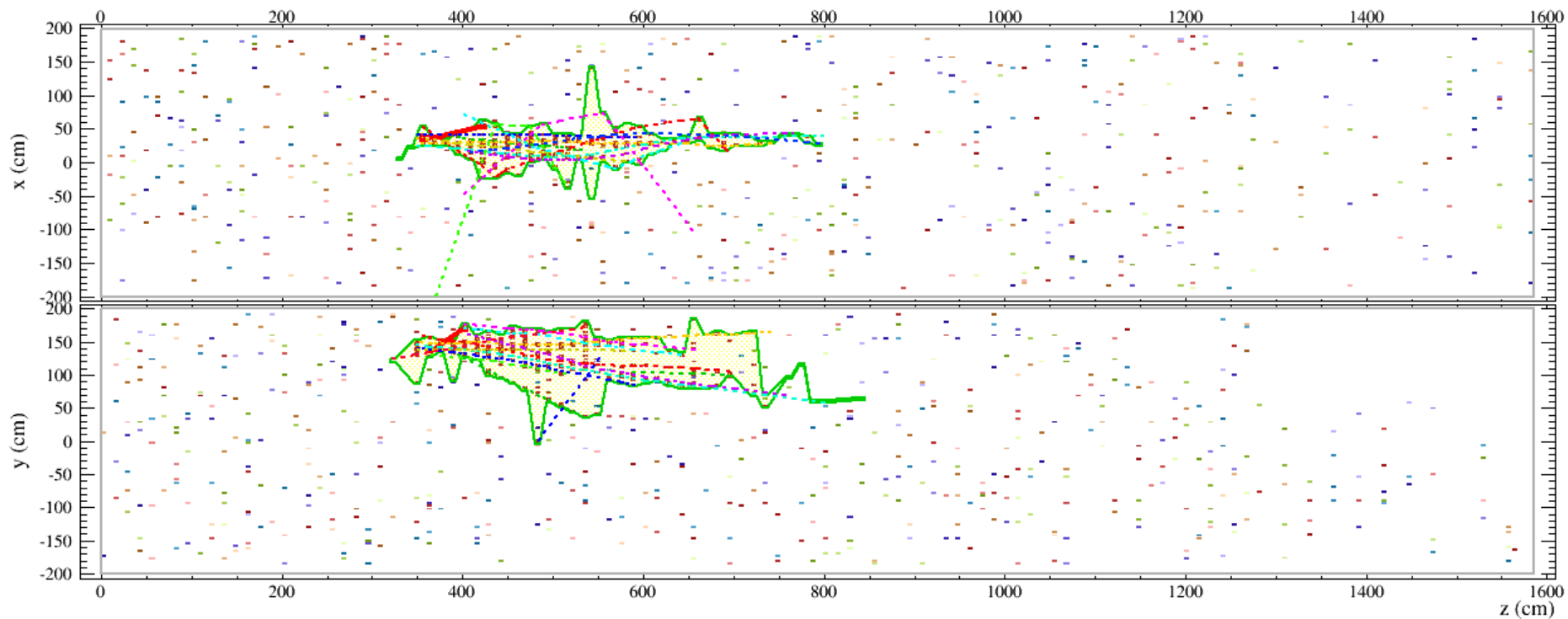
Run: 1 / 1

Event: 405 / NuMI

UTC Thu Jan 1, 1970

00:00:2.025000000





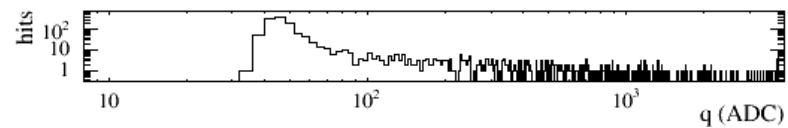
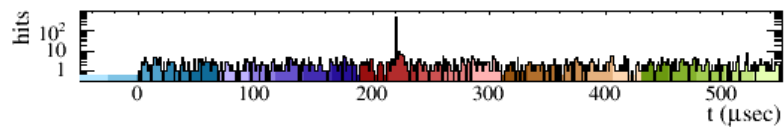
NOvA - FNAL E929

Run: 1 / 1

Event: 957 / NuMI

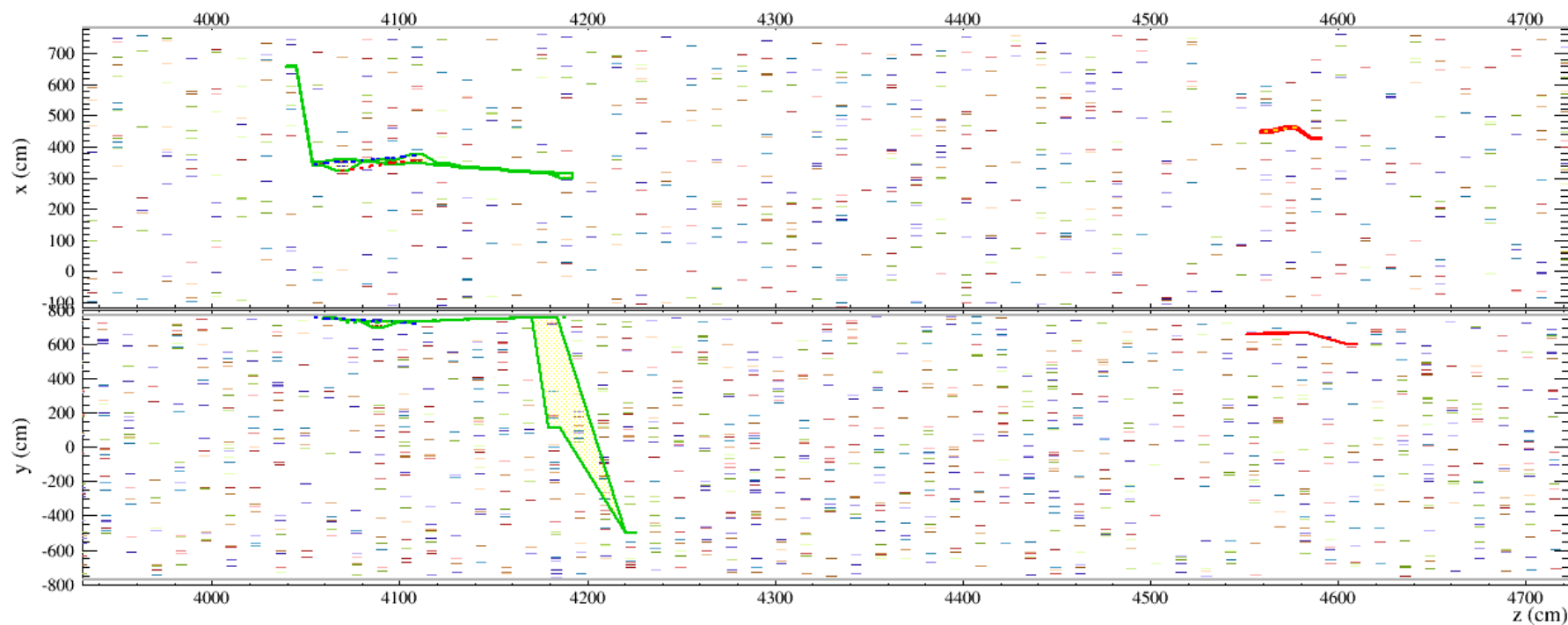
UTC Thu Jan 1, 1970

00:00:1.490032704



FD – 1000 nue events \rightarrow 9% of cases with 3 slices in the event

Some event displays



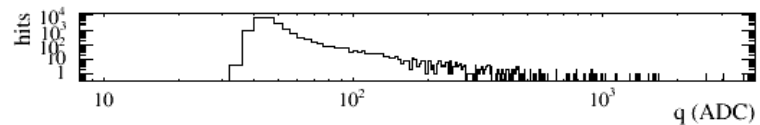
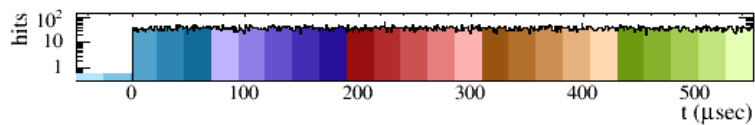
NOvA - FNAL E929

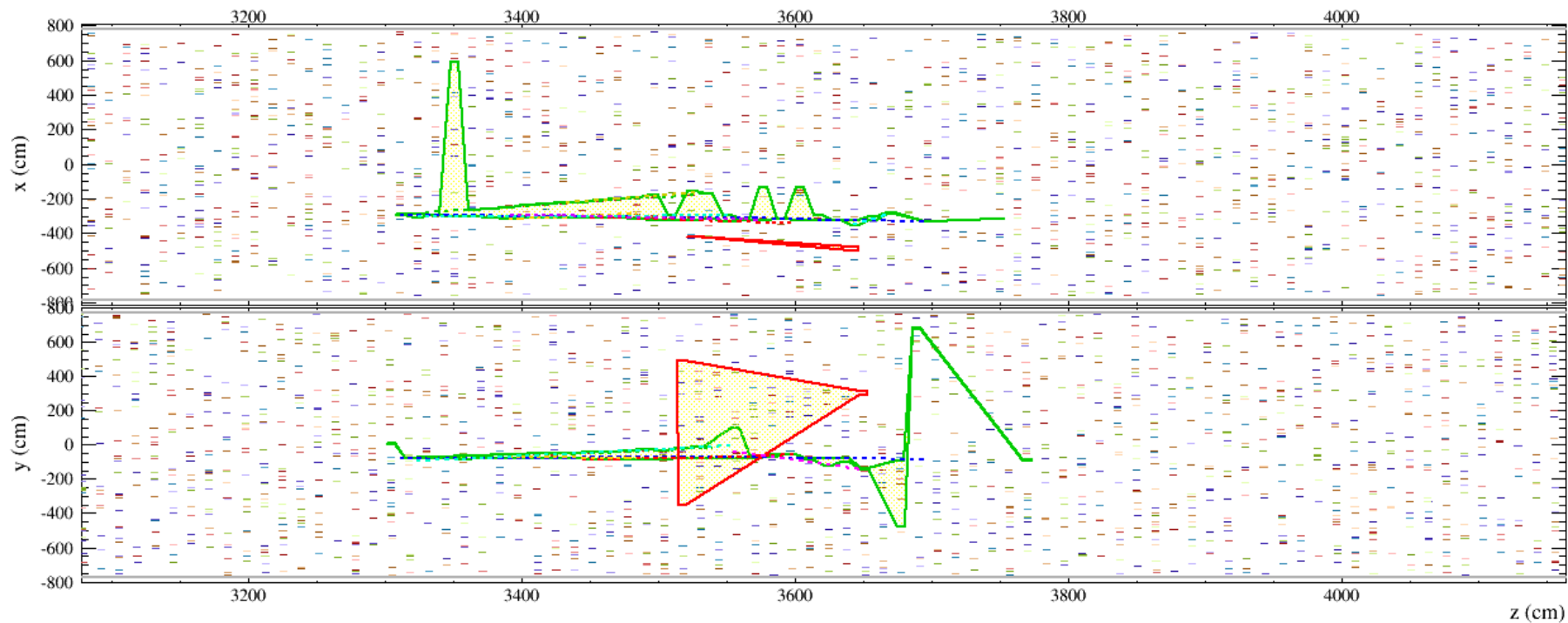
Run: 1 / 1

Event: 25 / NuMI

UTC Thu Jan 1, 1970

00:00:0.125000000





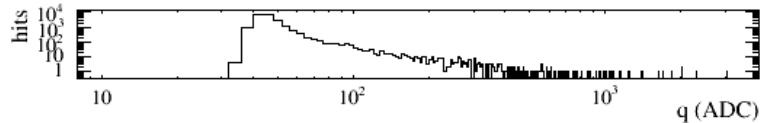
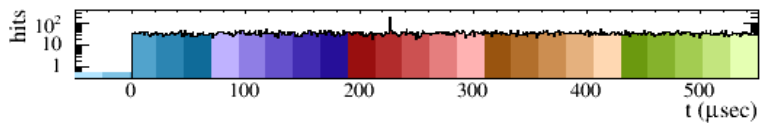
NOvA - FNAL E929

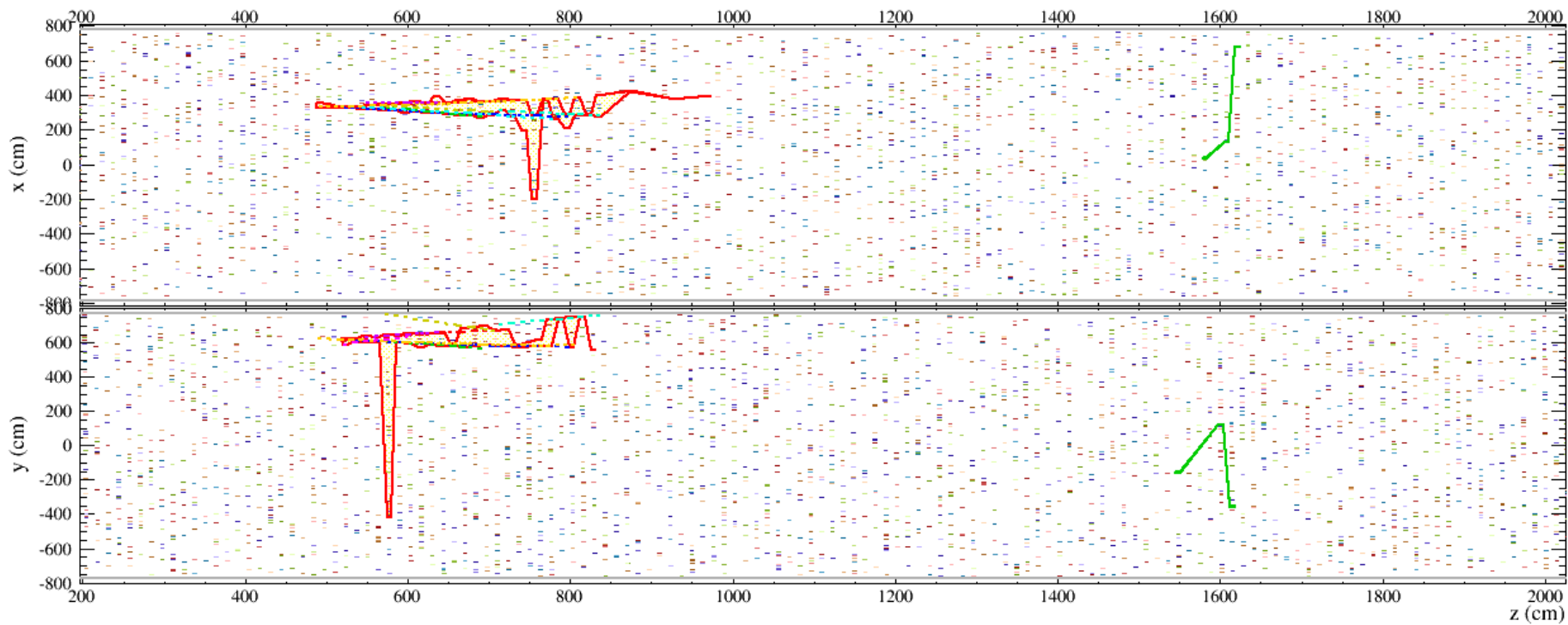
Run: 1 / 1

Event: 60 / NuMI

UTC Thu Jan 1, 1970

00:00:0.300000000





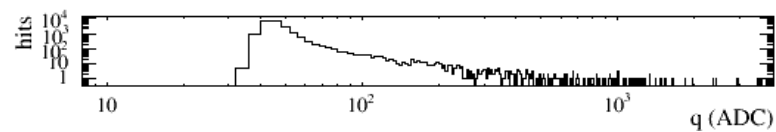
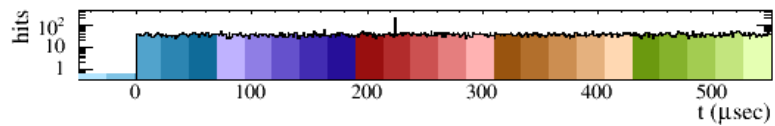
NOvA - FNAL E929

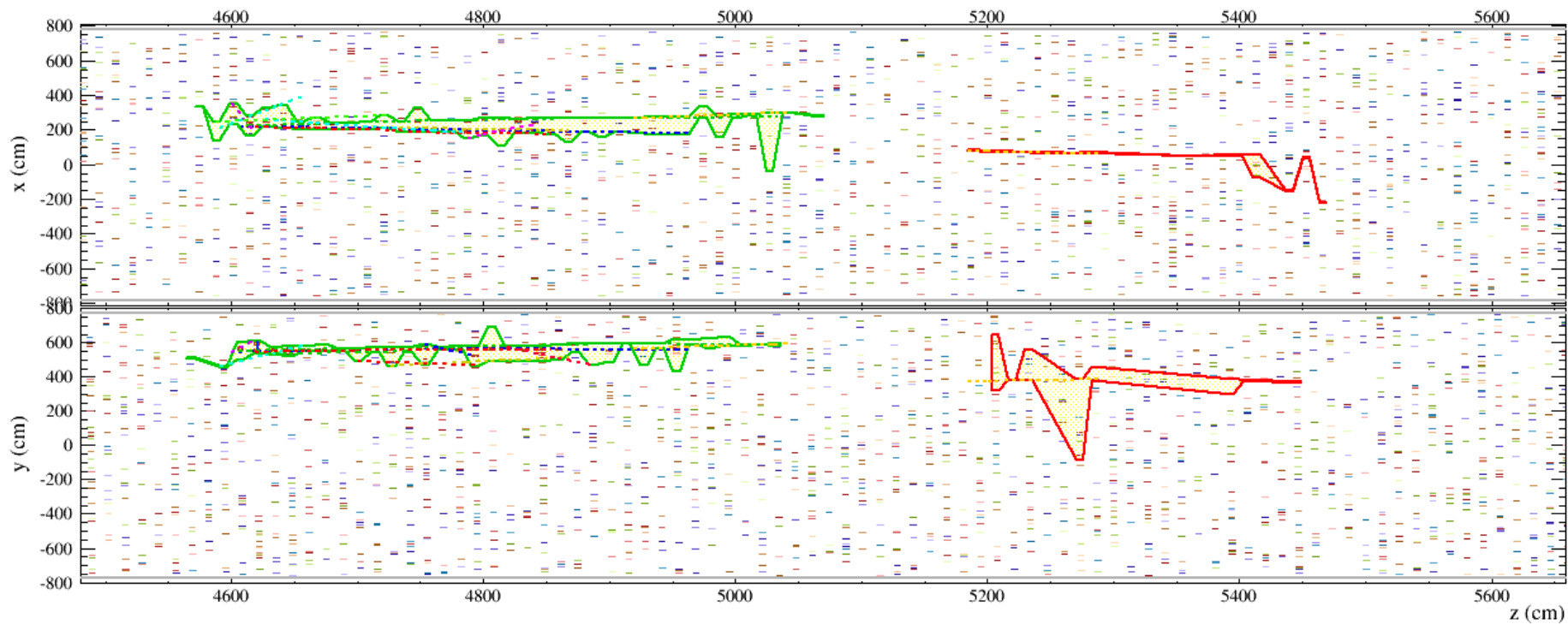
Run: 1 / 1

Event: 72 / NuMI

UTC Thu Jan 1, 1970

00:00:0.360000000





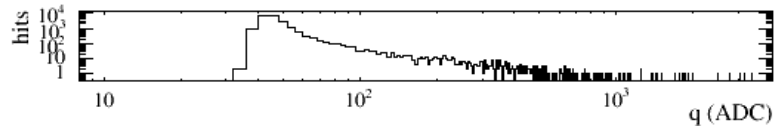
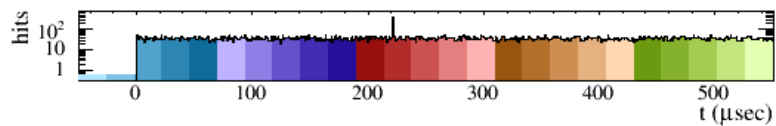
NOVA - FNAL E929

Run: 1 / 1

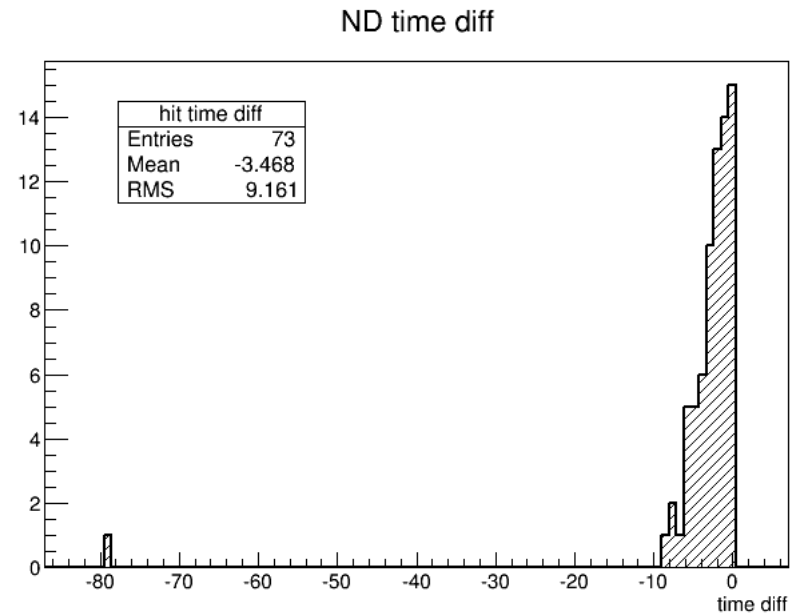
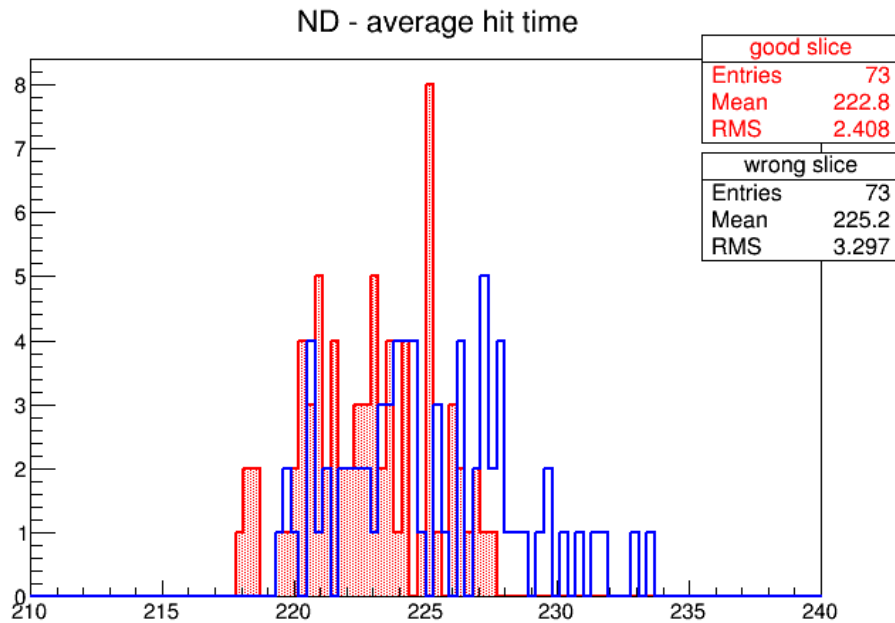
Event: 103 / NuMI

UTC Thu Jan 1, 1970

00:00:0.515000000

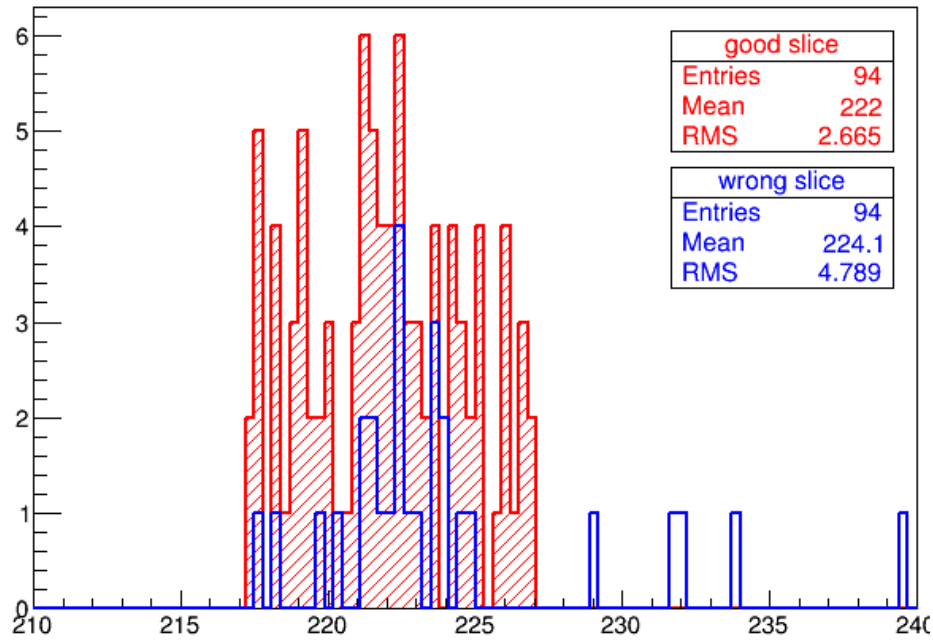


Cases with 3 slices – average time of hits in the good slice, average time of hits in the wrong slice - ND



Cases with 3 slices – average time of hits in the good slice, average time of hits in the wrong slice - FD

FD average hit time



FD time diff

